

Name

Date

### Worksheet #1: A Change from Solar to Wind Energy

1. An ocean wave is directly influenced by the \_\_\_\_\_ wind\_\_\_\_\_.
  - a. An ocean wave is indirectly influenced by the \_\_\_\_\_ sun\_\_\_\_\_.
2. The \_\_\_\_\_ wind\_\_\_\_\_ is a good example for showing solar energy's conversion into kinetic energy.
3. Where does wind come from? \_\_\_\_\_circulation of air via the sun\_\_\_\_\_
4. What are the three main steps needed for air circulation caused by the sun?
  - a. \_\_\_\_\_sun heats atm unequally\_\_\_\_\_
  - b. \_\_\_\_\_warm air expands and\_\_\_\_\_
  - c. \_\_\_\_\_cool air replaces warm air\_\_\_\_\_
5. The cycle that causes cooler air to replace warmer, rising air is commonly known as \_\_\_\_\_.
6. Indonesia suffers from problems such as \_\_\_\_\_drought\_\_\_\_\_.
7. Warm air always rises/sinks.
8. Cooler/Warmer air replaces rising warmer/cooler air.
9. At the equator, the temperature of the air is \_\_\_\_\_warm\_\_\_\_\_, which causes the air to \_\_\_\_\_rise\_\_\_\_\_.
10. Describe at the molecular level, what happens that causes air molecules to rise.